

Please type a plus sign (+) inside this box



PTO/SB/DBA (08-09)

Approved for use through 10/31/2002 OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/805,916
				Filing Date	3/22/2004
				First Named Inventor	S.V. Sreenivasan
				Group Art Unit	2123
				Examiner Name	Unassigned
Sheet	1	of	2	Attorney Docket Number	PA133-09D13

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Note Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231 Under the Paperwork Reduction Act of 1986, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/805,916
(use as many sheets as necessary)		Filing Date	3/22/2004
		First Named Inventor	S.V. Sreenivasan
		Group Art Unit	2123
		Examiner Name	Unassigned
Sheet	2	of	2
		Attorney Docket Number	PA133-09D13

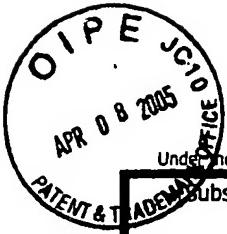
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Alexandria, VA 22313. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner for Patents, Alexandria, VA 22313



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	1	of	8	APPLICATION NUMBER	10/805,916
				FILING DATE	03/22/2004
				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	2123
				Examiner Name	Unassigned
				Attorney Docket Number	PA133-09D13

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number ²			
CY	B1	2002/0098426	A1	Sreenivasan et al.	7/25/2002	
CY	B2	4,731,155		Napoli et al.	3/15/1988	
CY	B3	5,414,514		Smith et al.	5/9/1995	
CY	B4	5,425,848		Halsma et al.	6/20/1995	
CY	B5	5,772,905		Chou	6/30/1998	
CY	B6	5,808,742		Everett et al.	9/15/1998	
CY	B7	6,088,103		Everett et al.	7/11/2000	
CY	B8	6,309,580	B1	Chou	10/30/2001	
CY	B9	6,334,960	B1	Willson et al.	1/1/2002	
CY	B10	6,391,217	B2	Schaffer et al.	5/21/2002	
CY	B11	6,522,411	B1	Moon et al.	2/18/2003	
CY	B12	6,696,220	B2	Bailey et al.	2/24/2004	
CY	B13	2002/0177319	A1	Chou	11/28/2002	
CY	B14	6,713,238	B1	Chou et al.	3/30/2004	
CY	B15	2004/0008334	A1	Sreenivasan et al.	1/15/2004	
CY	B16	2004/0009673	A1	Sreenivasan et al.	1/15/2004	
CY	B17	2004/0124566	A1	Sreenivasan et al.	7/1/2004	
CY	B18	3,783,520		King	1/8/1974	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	2	of	8	Attorney Docket Number	PA133-09D13

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
CY	B19	6,150,231		Muller et al.	11/21/2000	

CY	B20	6,489,068	B1	Kye	12/3/2002	
CY	B21	6,646,662	B1	Nebashi et al.	11/11/2003	
CY	B22	6,776,094	B1	Whitesides et al.	8/17/2004	
CY	B23	4,600,309		Fay	7/15/1986	
CY	B24	4,848,911		Uchida et al.	7/18/1989	
CY	B25	5,074,667		Miyatake	12/24/1991	
CY	B26	5,148,036		Matsugu et al.	9/15/1992	
CY	B27	5,148,037		Suda et al.	9/15/1992	
CY	B28	6,518,189	B1	Chou	2/11/2003	
CY	B29	2002/0132482	A1	Chou	9/19/2002	
CY	B30	2002/0167117	A1	Chou	11/14/2002	
CY	B31	6,482,742	B1	Chou	11/19/2002	
CY	B32	2003/0080471	A1	Chou	5/1/2003	
CY	B33	2004/0036201	A1	Chou et al.	2/26/2004	
CY	B34	2004/0192041	A1	Jeong et al.	9/30/2004	
CY	B35	6,828,244	B2	Chou	12/7/2004	
CY	B36	6,809,356	B2	Chou	10/26/2004	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	3	of	8	Attorney Docket Number	PA133-09D13

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
CY	B37	5,737,064		Inoue et al.	4/7/1998	

CY	B38	2004/0197843	A1	Chou et al.	10/7/2004	
CY	B39	2004/0156108	A1	Chou et al.	8/12/2004	
CY	B40	2004/0137734	A1	Chou et al.	7/15/2004	
CY	B41	2004/0131718	A1	Chou et al.	7/8/2004	
CY	B42	2004/0118809	A1	Chou et al.	6/24/2004	
CY	B43	2004/0046288	A1	Chou	3/11/2004	
CY	B44	2003/0080472	A1	Chou	5/1/2003	
CY	B45	2003/0034329	A1	Chou	2/20/2003	
CY	B46	2002/0042027	A1	Chou et al.	4/11/2002	
CY	B47	6,636,311	B1	Ina et al.	10/21/2003	
CY	B48	6,383,888	B1	Stirton	5/7/2002	
CY	B49	2004/0033515	A1	Cao et al.	2/19/2004	
CY	B50	5,999,245		Suzuki	12/7/1999	
CY	B51	6,630,410	B2	Trapp et al.	10/7/2003	
CY	B52	6,580,172	B2	Mancini et al.	6/17/2003	
CY	B53	10/895,214		Vaison	7/20/2004	
CY	B54	10/923,629		Sreenivasan et al.	8/20/2004	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER 10/805,916 FILING DATE 03/22/2004 FIRST NAMED INVENTOR Sreenivasan et al. Group Art Unit 2123 Examiner Name Unassigned Attorney Docket Number PA133-09D13	
Sheet	4	of	8		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
CY	B55	10/978,285		Willson et al.	10/29/2004	
CY	B56	11/000,321		Nimmakayala et al.	11/30/2004	
CY	B57	4,512,848		Deckman et al.	4/23/1985	
CY	B58	6,388,755	B1	Zhao	5/14/2002	
CY	B59	6,295,120	B1	Miyatake	9/25/2001	
CY	B60	6,049,373		Miyatake	4/11/2000	
CY	B61	6,285,439	B1	Miyatake	9/4/2001	
CY	B62	6,791,669	B2	Poon	9/14/2004	
CY	B63	6,517,995	B1	Jacobenson et al.	2/11/2003	
CY	B64	2004/0110856	A1	Young et al.	6/10/2004	
CY	B65	5,028,366		Harakal et al.	7/2/1991	
CY	B66	5,601,641		Stephens	2/11/1997	
CY	B67	5,849,209		Kindt-Larsen et al.	12/15/1998	
CY	B68	5,849,222		Jen et al.	12/15/1998	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p>			
<p>Substitute for form 1449A/PTO</p>		<p>Complete if Known</p>	
		APPLICATION NUMBER	10/805,916
		FILING DATE	03/22/2004
		FIRST NAMED INVENTOR	Sreenivasan et al.
		Group Art Unit	2123
		Examiner Name	Unassigned
Sheet	5	of	8
		Attorney Docket Number	PA133-09D13

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							T ⁶		
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY			
		Office ³	Number ⁴	Kind Code ⁵ (if known)					

CY	B69	WO	00/21689		Chou et al.	4/20/2000	
CY	B70	JP	02-92603		Kurikawa et al.	4/3/1990	
CY	B71	JP	02-24848		Kamio	1/26/1990	
CY	B72	WO	01/47003		Steiner et al.	6/28/2001	
CY	B73	WO	02/07199		Chou	1/24/2002	
CY	B74	WO	2004/114016		Chou et al.	12/29/2004	
CY	B75	WO	99/05724		Chou et al.	2/4/1999	
CY	B76	WO	03/010289		Chou et al.	2/6/2003	
CY	B77	WO	03/079416		Chou	9/25/2003	
CY	B78	WO	03/099536		Chou et al.	12/4/2003	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				<i>Complete if Known</i>													
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>																	
Sheet		6	of	8													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">APPLICATION NUMBER</td> <td>10/805,916</td> </tr> <tr> <td>FILING DATE</td> <td>03/22/2004</td> </tr> <tr> <td>FIRST NAMED INVENTOR</td> <td>Sreenivasan et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2123</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PA133-09D13</td> </tr> </table>						APPLICATION NUMBER	10/805,916	FILING DATE	03/22/2004	FIRST NAMED INVENTOR	Sreenivasan et al.	Group Art Unit	2123	Examiner Name	Unassigned	Attorney Docket Number	PA133-09D13
APPLICATION NUMBER	10/805,916																
FILING DATE	03/22/2004																
FIRST NAMED INVENTOR	Sreenivasan et al.																
Group Art Unit	2123																
Examiner Name	Unassigned																
Attorney Docket Number	PA133-09D13																

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
T ²		

CY	B79	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001
CY	B80	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001
CY	B81	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000
CY	B82	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996
CY	B83	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997
CY	B84	Haisma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996
CY	B85	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995
CY	B86	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003
CY	B87	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	7	of	8	Examiner Name	Unassigned
				Attorney Docket Number	PA133-09D13

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

CY	B88	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	
CY	B89	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
CY	B90	Translation of Japanese Patent 02-92603	
CY	B91	Translation of Japanese Patent 02-24848	
CY	B92	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
CY	B93	Moon et al., Interferometric-Spatial-Phase Imaging for Six-Axis Mask Control, MIT NanoStructures Laboratory, Research Laboratoy of Electronics, 10/17/2003	
CY	B94	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technoloy B 14(16), pp. 4129-4133, 11/1/1996	
CY	B95	Colbum et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
CY	B96	Colbum et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO				<i>Complete If Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	8	of	8	Examiner Name	Unassigned
				Attorney Docket Number	PA133-09D13

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
--------------------	----------	---	----------------

CY	B87	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
CY	B88	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
CY	B89	Wronosky et al., Wafer and Reticle Positioning System for the Extreme Ultraviolet Lithography Engineering Test Stand, Emerging Lithography Technologies, Proceedings of SPIE Vol. 3997, pp. 829-839, 7/1/2000	
CY	B100	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 7/31/2006. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
collection of information unless it displays a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
Sheet	1	of	2	APPLICATION NUMBER	10/805,916
				FILING DATE	03/22/2004
				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	2123
				Examiner Name	Unassigned
				Attorney Docket Number	PA133-09D13

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

¹Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's issued citation designation number (optional). ³See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 501.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22312-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TD: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22312-1450.

If you need assistance in completing the form, call 1-800-PTD-9129 (1-800-786-9129) and select option 2.

PTO/58/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
<i>(use as many sheets as necessary)</i>					
Sheet	2	of	2	Examiner Name	Unassigned
				Attorney Docket Number	PA133-09D13

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ^d
--------------------	----------	---	----------------

CY	C12	PARK ET AL., Aligning Liquid Crystals Using Replicated Nanopatterns, PSI Scientific Report 2002, Vol VII, p. 85 3/1/2003	
CY	C13	APPLICATION NO. 11/126,948, naming Inventors Choi et al., entitled Formation of Discontinuous Films During an Imprint Lithography Process, filed 5/11/2005	
CY	C14	APPLICATION NO. 11/127,041, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Processes, filed 5/11/2005	
CY	C15	APPLICATION NO. 11/127,060, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Systems, filed 5/11/2005	
CY	C16	APPLICATION NO. 11/143,076, naming Inventors Cherala et al., entitled System and Method for Improvement of Alignment and Overlay for Microlithography, filed 6/2/2005	

Examiner Signature	/Christopher Young/ (05/26/2006)	Date Considered	05/26/2006
--------------------	----------------------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^bApplicant's unique citation designation number (optional). ^cApplicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.